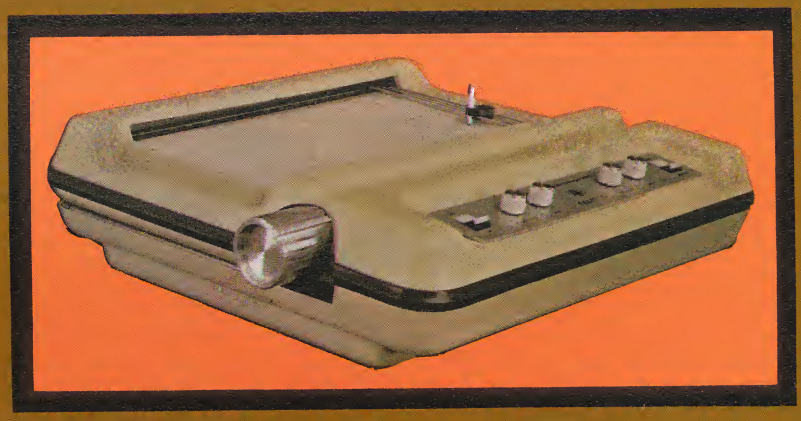
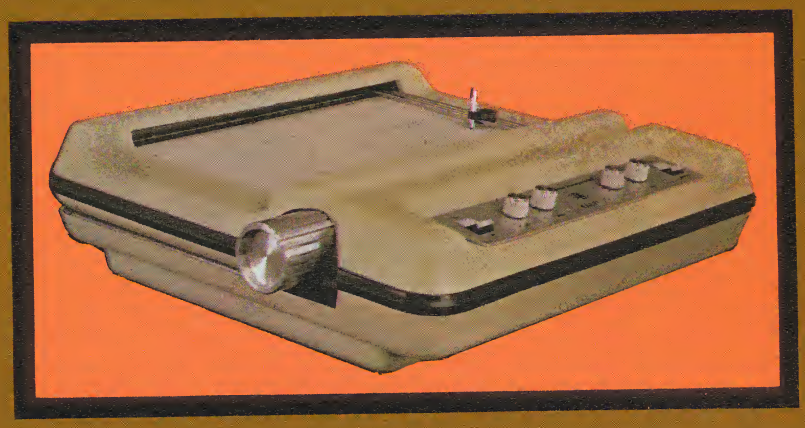
FasPlot



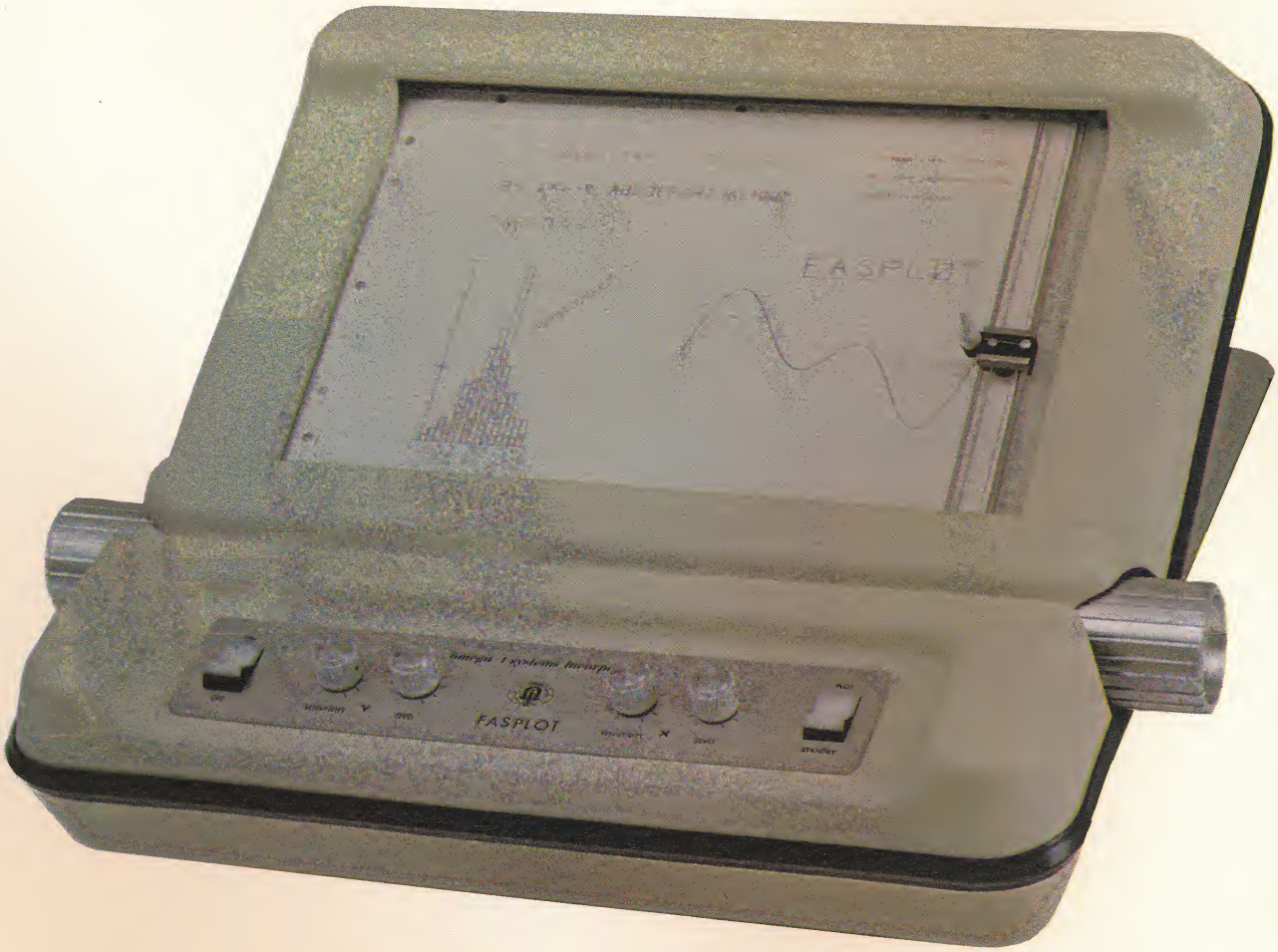
FasPlot

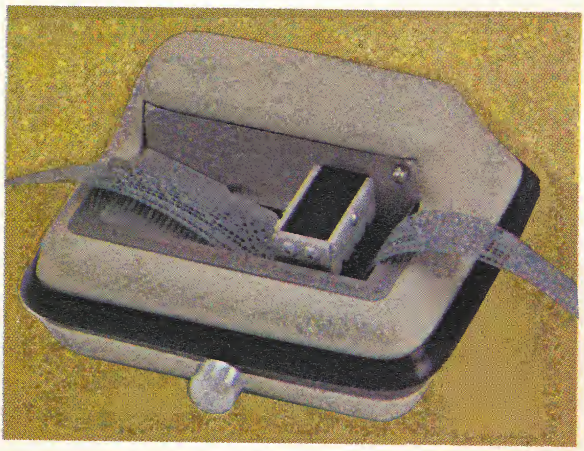


The FasPlot Plotter is a uniquely versatile device capable of exceptionally high-speed plotting when used in conjunction with teletype terminals in computer systems.

Combining solid state control circuitry with an analog recorder, the FasPlot can draw a straight line rapidly in any direction with a minimum number of commands. Additionally, an automatic segmenting mode may be selected for either the X or Y axis which enables the plotter to quickly create graphs composed of preset increments representing months, dollar amounts, or anything readily divisible into equal segments.

The FasPlot has an operational plotting speed of 10 inches per second and offers a tiltable plotting bed up to 90°, a feature not currently available in similar devices. Exactingly controlled through built-in solid state electronics, the FasPlot affords extreme accuracy of performance in either on-line or off-line operations. The FasPlot's simple input format enables an operator to develop plots without the necessity of special programming; the few simple commands required are composed of standard keyboard characters. Through the use of many programming languages, the plotter data format is easily achieved.


FASPLOT



CONFIGURATION

Information may be input to the FasPlot by wiring the plotter to the teletype terminal, or by using the FasPlot Paper Tape Reader.

The FasPlot Paper Tape Reader operates at 30 characters per second. A time-saving option for use in on-line or off-line applications, the Reader is best utilized when placed near the teletype; then, as the paper tape rolls out of the teletype, it feeds into the FasPlot Paper Tape Reader. This reader option also allows the user to off-line plot at his convenience — e.g. at night — leaving the teletype free during the day to generate tape for plotting or perform other functions.

The FasPlot Paper Tape Reader affords easy installation through its simple interface. Lightweight and completely portable, it does not require internal wiring into the teletype; thus, the user may develop plots any place at any time.

OPERATION

To generate a plot, the operator must first establish his graph scale. FasPlot is electronically capable of dividing any given plotting area into 1,000 intervals for the X axis and 1,000 for the Y axis; for example, a 10″ by 10″ area can be divided into intervals each equal to .01 inches. The pen may be commanded to move as little as one interval value; thus, the distance of the interval is determined by the size of the paper and the operator's scale setting. In the Automatic Axis Segment Mode, the pen may be commanded to increment either 1, 10, or 100 intervals at a time on a 1000-increment graph. The X-Y coordinates are absolute and position feedback is such that each plotted point is independent of the accuracy of prior points.

PLOT GENERATION

The simple commands needed to operate the FasPlot are listed below:

INPUT DATA SET FORMAT:
CXXXYYY,
C = Command Character
XXX = 3 Digit X Axis coordinate
YYY = 3 Digit Y Axis coordinate
, = Data Set Delimiter

PLOTTER COMMANDS

COMMAND	DESCRIPTION
!	"Initiate" — Allows plotter to recognize all valid commands and data.
L	"Lift" — Lift the pen.
X	"X Axis Segment" — Puts plotter in X Axis Segment Mode.
Y	"Y Axis Segment" — Puts plotter in Y Axis Segment Mode.
H	Segment Value — 1 Unit
I	Segment Value — 10 Units
HI	Segment Value — 100 Units
A	"Abeyance" — Makes segment value = 0 for 1 data set
Q	"Quit"— Prevents plotter from recognizing all but initiate command.

TYPICAL APPLICATIONS

Management	Medicine
Engineering	Banking
Architecture	Investment
Science	Quality Assurance

SPECIAL FEATURES

SOFTWARE CONVENIENCE PACKAGES:

Subprograms are provided on the major time-share systems to allow the customer to conveniently generate various type plots, including point and line plots, the 64 ACCII characters, and axis information.

INPUT CODE:

The FasPlot operates on 8-level ASCII.

PEN TYPES:

FasPlot offers two types of pens, a felt-tip pen, and a liquid ink pen with disposable cartridges. Both types of pens are available in five colors.

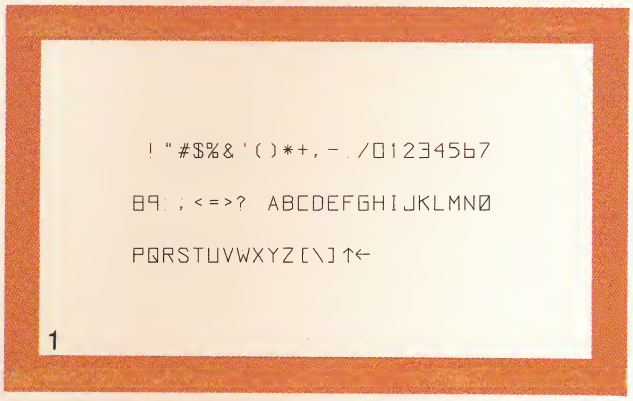
PAPER:

Due to a special vacuum design which holds the graph paper in place, virtually any size paper up to 11 x 17 may be used with FasPlot. By setting the zero point and the scale, the operator can direct the plotter to start at any given point and proceed to any other point according to the requirements of his own paper or business forms.

LEASE/PURCHASE:

The FasPlot may be purchased outright or leased through one of several companies specializing in the leasing of computer peripheral equipment. Its many unique features, combined with a low cost per unit, make FasPlot an attractive and feasible purchase for almost any business needing digital information translated into graphic form.

The simplicity of operation, versatility, and accuracy offered by FasPlot, combined with the wide range of applications in any business or technological area, now make the possibility of automatic plotting available to all computer users. For a demonstration of FasPlot, tailored to your requirements, call or write Omega-t Systems, Inc., 300 Terrace Village, Richardson, Texas 75080
(214) 231-5121.



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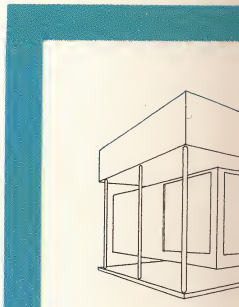
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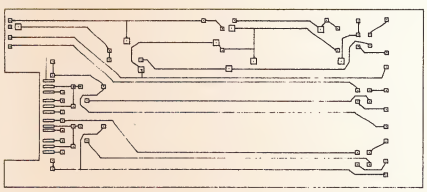
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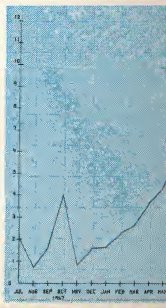
4

These illustrations are untouched reproductions of actual plots gener a few of the wide ranges of application for FasPlot.

1. A complete set of alphanumerics and symbols available in the general software convenience packages. Plotting time 1.2 minutes.

2. An architectural projection of the building housing Omega-t. Plotting time 1.75 minutes.

3. A typical print case one of powe FasPlot. Plotting

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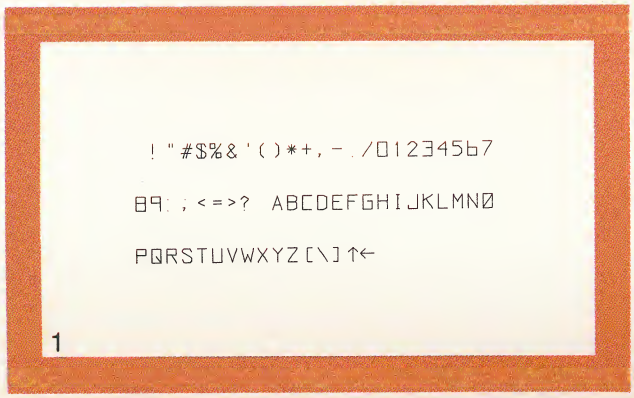
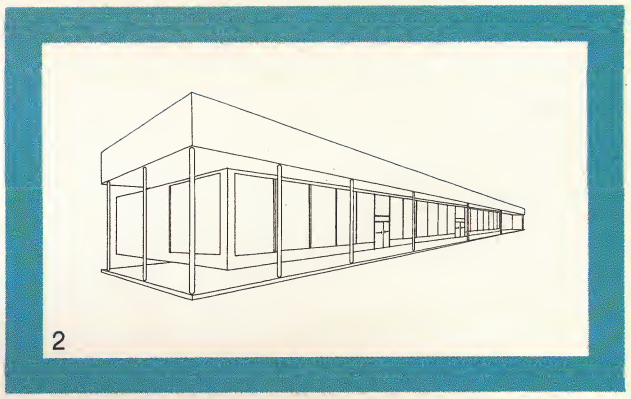
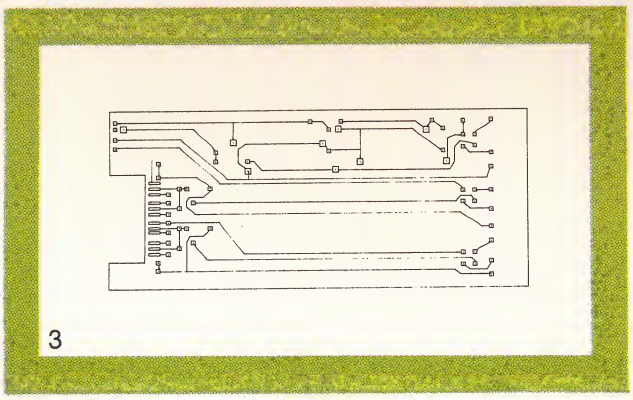
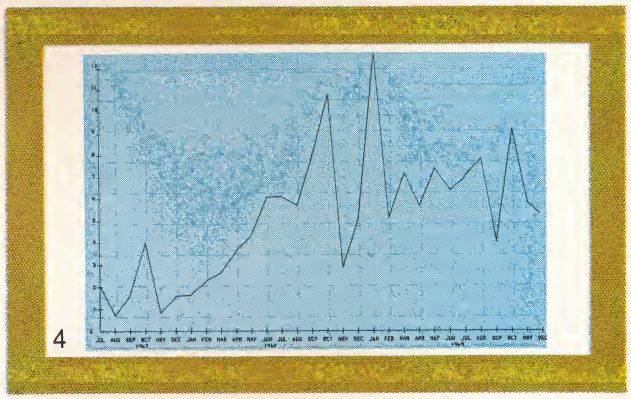








These illustrations are untouched reproductions of actual plots generated by FasPlot, and show a few of the wide ranges of application for FasPlot.

1. A complete set of alphanumerics and symbols available in the general software convenience packages. Plotting time 1.2 minutes.

2. An architectural projection of the building housing Omega-t. Plotting time 1.75 minutes.

3. A typical printed circuit board, in this case one of power supply boards used in FasPlot. Plotting time 3.3 minutes.

4. A typical presentation of monthly sales, the plotting time for this graph, including the extensive alphanumerics, was 6.3 minutes.

FEATURES:

- New X-Y plotter
- Straight lines at 10 inches per second, in any direction, any mode
- Driven directly by computer teletype terminals or paper tape
- Simplicity of operation (no special programming necessary)
- Automatic axis segment mode* (saves 50% data transmission time)
- On-line or off-line modes
- Tiltable bed (0 to 90°)
- Low cost

*Automatic equal division of either the X or Y axis.

OPERATIONAL CHARACTERISTICS:

- Plotting Speed: 10 inches/second along either or both axes from any point to any other point.
- Accuracy: 0.2% of full scale
- Resolution: .015 inches
- Repeatability: Better than .01 inches
- Power: 115 volts 60 cps, 75 watts

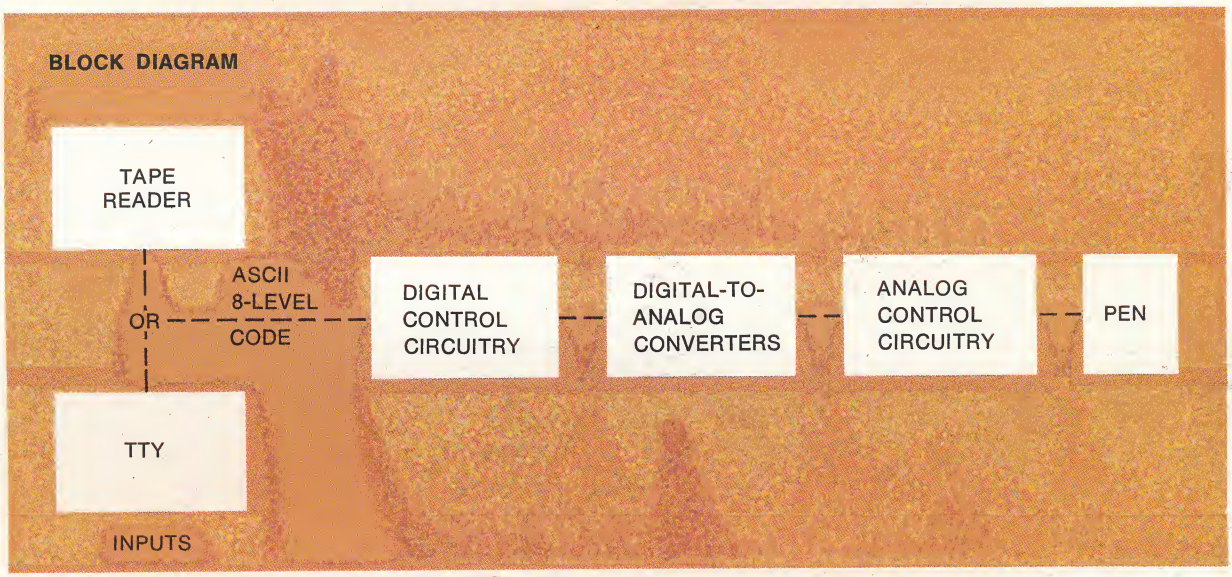
GENERAL CHARACTERISTICS:

- Paper Size: 11″ x 17″ Maximum
- Plot Size: 10″ x 15″ Maximum
- Plotter Bed: Tiltable 0° to 90°
- Plotter Case Material: Acrylic PVC; stain resistant; fire resistant; shock resistant
- On-or-off Line Plotting

Additional items of the Omega-t peripheral product line are:

Plotter – CRT Controllers
Mini-Computer Interface for FasPlot.

FASPLOT WARRANTY: ONE YEAR
SERVICE CONTRACTS ARE AVAILABLE.



omega-t systems incorporated

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